

Table 4-11
Business expenditures for R&D, by selected countries and top R&D-performing industries: 2012 or most recent year

	ISIC Rev.4								
Industry	Section	Division	United States (2011)	France (2012)	Germany (2012)	United Kingdom (2012)	China (2012)	Japan (2012)	South Korea (2012)
Millions of current PPP dollars									
Total business enterprise	A–U	1–99	294,093	35,237	68,469	24,610	223,169	116,321	50,245
Manufacturing	C	10–33	201,361	17,691	58,977	9,837	194,810	102,306	44,127
Chemicals and chemical products		20	9,375	1,060	4,450	378	17,559	7,138	2,655
Pharmaceuticals, medicinal chemical, and botanical products		21	45,949	946	5,209	725	8,062	12,484	1,214
Computer, electronic, and optical products		26	62,704	4,050	9,409	1,405	33,819	28,291	25,081
Motor vehicles, trailers, and semi-trailers		29	11,695	2,212	22,098	2,126	16,238	26,839	5,688
Other transport equipment		30	29,185	3,685	3,415	2,025	9,754	586	886
Air and spacecraft and related machinery		303	26,054	3,368	3,026	1,938	NA	309	185
Total services	G–U	45–99	88,945	16,532	8,975	14,300	14,156	12,403	4,391
Information and communication	J	58–63	55,124	3,845	4,042	3,483	NA	5,164	2,364
Publishing activities		58	28,435	930	NA	74	NA	6	1,518
Software publishing		582	27,965	920	NA	34	NA	NA	1,507
Computer programming, consultancy, and related activities		62	13,259	1,877	3,072	2,250	NA	2,086	245

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Industry		Section	Division	United States (2011)	France (2012)	Germany (2012)	United Kingdom (2012)	China (2012)	Japan (2012)	South Korea (2012)
consultancy, and related activities			62	4.5	5.3	4.5	9.1	NA	1.8	0.5
Professional, scientific, and technical activities		M	69–75	8.5	29.2	5.8	34.9	NA	5.4	2.1
Scientific R&D			72	5.2	12.3	3.1	27.4	NA	4.9	0.5
NOTES:	NA = not available.									
	ISIC Rev.4 = International Standard Industrial Classification of All Economic Activities, Revision 4; PPP = purchasing power parity.									
SOURCE:	Detail may not add to total because of rounding. Industry classifications for all countries are based on main activity. The U.S. business R&D data are from the U.S. Business R&D and Innovation Survey 2011 (cross-walked to the ISIC Rev.4 classifications). In general, the table includes industries with annual R&D expenditures of \$10 billion or more (i.e., each country's largest R&D performers). See appendix table 4-15 for a more comprehensive list of industries.									
	Organisation for Economic Co-operation and Development, Analytical Business Enterprise R&D, Statistical Analysis Database, R&D Expenditures in Industry, http://stats.oecd.org/Index.aspx?DataSetCode=ANBERD_REV4 , accessed 9 April 2015.									
Science and Engineering Indicators 2016										